Wireless Communication

- Characteristics of Wireless Channel
  - Fading And Interference
  - Equalization And Diversity
- Fundamentals of Cellular Network
  - Frequency Reuse concept
  - Sectorization And Cell Splitting
  - Handoff Mechanisms
  - Trunking Theory
- GSM and GPRS Networks
  - GSM Architecture
  - GSM Frame and Channels
  - GPRS Architecture
  - GPRS Protocol Stack
- IS-95: CDMA
  - Orthogonal Variable Spreading Factor
  - PN sequence
  - CDMA RAKE receiver
  - CDMA Channels
- OFDM, MIMO and LTE network
- Mobile IP
  - Requirements and Effective Solution
  - Triangle Routing
  - IP Tunneling
  - Security in Mobile IP

BOOKS:
  - Wireless Communication- *T. S. Rappaport*
  - Fundamentals of Wireless Communications-*David Tse*
  - Third Generation wireless systems – *G. M. Calhoun*
  - Mobile communication, Jochen Schiller